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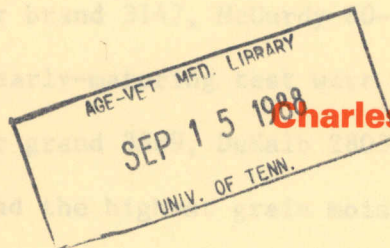
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Performance of Corn Hybrids in 1982

1982

RR No. 82-13

November, 1982



Charles R. Graves



Department of Plant and Soil Science

PERFORMANCE OF CORN HYBRIDS IN 1982^{1/}

Charles R. Graves^{2/}

The 1982 medium-season state corn hybrid tests were conducted at seven locations, and full-season and early-maturing at four locations. No data are reported for the medium-season test at Milan due to damage from a severe flood. The tests at Ames Plantation, Jackson and Martin were harvested with a picker-sheller. All other tests were harvested by hand. The growing season was good at most locations in 1982. Spring Hill and Greeneville yields were reduced due to dry weather during the growing season.

The leading hybrids in 1982 in the medium-season test were Pioneer brand 3147 (a full-season hybrid included as a check), Pioneer brand 3320, DeKalb 28012, Pioneer brand 3184, DeKalb EX7979 and McCurdy 8150.

The leading hybrids in the full-season test were Pioneer brand 3165, Pioneer brand 3160, DeKalb 29014, Pioneer brand 3147, McCurdy 80-72 and Funk G-4740.

The leading hybrids in the early-maturing test were McCurdy 81-82, McCurdy 84aa, Pioneer brand 3358, Pioneer brand 3389, DeKalb 28035 and O's Gold 2570. McCurdy 81-82 and McCurdy 84aa had the highest grain moisture at harvest and should have been evaluated in the medium season tests.

The highest yielding varieties evaluated under virus conditions were Pioneer brand 3160, Pioneer brand 3147, DeKalb XL72BB, FFR 848C, DeKalb 28012 and FFR 955C.

The grain of hybrids grown at Knoxville is being analyzed for crude protein by the UT forage testing lab in Nashville. These data will be reported in a later publication.

^{1/} These results will be included in the 1982 Bulletin, "Performance of Field Crop Varieties", which will be available in 1983.

^{2/} Professor of Plant and Soil Science.

The Recommended Corn Hybrids for 1983 are as Follows:

| Maturity Group | Grain Color | Hybrid | Tolerance to Corn Virus Complex | Erect Plants % | Yield Bu/A |
|-------------------|----------------|-----------------------------|--|----------------------|---------------|
| | | | | | |
| Early-Season | Yellow | O's Gold 3344 | Med | 93 | 126 |
| | | Funk G-4507A | Low | 95 | 117 |
| | | FFR 744C | Low | 96 | 113 |
| | | P.A.G. 333 | Low | -- | --- |
| | | FFR 717C ^{3/} | Med-High | 96 | 112 |
| Medium-Season | Yellow | Pioneer brand 3320 | Low | 99 | 128 |
| | | Pioneer brand 3184 | Med-Low | 100 | 127 |
| | | Pioneer brand 3369A | Low | 100 | 125 |
| | | McCurdy 8150 | Low | 98 | 125 |
| | | McCurdy 7978 | Med | 98 | 123 |
| | | RA 1502 | Low | 97 | 123 |
| | | O's Gold SX5509 | Low | 98 | 122 |
| | | RA 1604 | Low | 96 | 122 |
| | | DeKalb XL72BB | Med-High | 99 | 118 |
| | | DeKalb XL80 ^{2/} | Low | -- | --- |
| | | DeKalb XL72B ^{3/} | High | -- | --- |
| | | N.K. PX79 | Med-Low | -- | --- |
| | | P.A.G. SX17A | Med | -- | --- |
| | | Zimmerman Z-24Y | Low | -- | --- |
| | | McCurdy 84aa | Low | -- | --- |
| | White | DeKalb XL390B | Low | 95 | 127 |
| Full-Season | Yellow | Pioneer brand 3147 | Med-High | 97 | 140 |
| | | Funk G-4740 | Med | 99 | 139 |
| | | Pioneer brand 3160 | Med-High | 99 | 138 |
| | | Funk G-4848-2 ^{2/} | Med | -- | --- |
| | | FFR 955C | Med-High | 97 | 130 |
| | | Golden Harvest H-2775A | Low | 95 | 127 |
| | | DeKalb XL394 | High | 99 | 126 |
| | | N.K. PX723 ^{2/} | Med-High | -- | --- |
| | White | Zimmerman Z-11W | Med-High | 97 | 131 |
| | | Zimmerman Z-52W | Med-High | 97 | 127 |
| | | Golden Harvest H-2660W | Med | 97 | 127 |
| | | RA 2602W | Med | 97 | 122 |
| | | FFR 929W | Med | 97 | 122 |
| | | Princeton SX910 | Med-High | 97 | 121 |
| | | Asgrow RX962W | Low | -- | --- |
| | | Funk G-4741-1 ^{2/} | Med | -- | --- |

^{1/} Hybrids rated lower than medium-high are not recommended under heavy virus conditions.

^{2/} Present plans indicate that this hybrid will not be recommended after this year.

^{3/} Recommended only under virus conditions.

Table 1. Corn: Yield of 40 medium-season hybrids evaluated at five locations in 1982.

| Color | Cross | Hybrid | Avg. | Greene- ^{1/} ville | Knox- ^{2/} ville | Spring- ^{3/} field | Spring Hill | Martin- ^{5/} |
|------------------|-------|------------------------------|-------|--------------------------------|------------------------------|--------------------------------|----------------|-----------------------|
| Bushels per acre | | | | | | | | |
| y | 2X | Pioneer brand 3147 | 135 | 94 | 171 | 161 | 104 | 146 |
| y | 2X | Pioneer brand 3320 | 132 | 103 | 166 | 154 | 102 | 134 |
| y | 2X | DeKalb 28012 <u>6/</u> | 126 | 83 | 154 | 150 | 98 | 143 |
| y | 2X | Pioneer brand 3184 | 125 | 94 | 161 | 150 | 98 | 123 |
| y | 2X | DeKalb EX7979 | 124 | 81 | 170 | 158 | 90 | 123 |
| y | 2X | McCurdy 8150 | 124 | 86 | 159 | 140 | 95 | 141 |
| y | 2X | Coker 21 | 123 | 81 | 156 | 162 | 89 | 129 |
| y | 2X | Stauffer S8500 | 123 | 97 | 151 | 133 | 98 | 136 |
| y | 2X | DeKalb XL71 | 122 | 93 | 138 | 134 | 88 | 159 |
| y | M2X | Funk G-4733 | 122 | 83 | 159 | 147 | 95 | 126 |
| y | 2X | USS 1515 | 122 | 92 | 134 | 141 | 98 | 144 |
| w | 3X | O's Gold 2680W | 122 | 60 | 163 | 171 | 92 | 123 |
| y | 2X | DeKalb 28010 <u>7/</u> | 121 | 80 | 159 | 140 | 99 | 126 |
| y | M2X | Funk EX29092 | 121 | 88 | 164 | 133 | 95 | 123 |
| y | 2X | McCurdy 7978 | 120 | 91 | 147 | 143 | 99 | 120 |
| y | 2X | N.K. PX79 | 120 | 84 | 143 | 143 | 101 | 128 |
| y | 2X | FFR 848C | 120 | 73 | 147 | 151 | 95 | 132 |
| y | 2X | RA 1502 | 120 | 89 | 142 | 124 | 84 | 159 |
| y | 2X | O's Gold 5509 | 119 | 92 | 157 | 154 | 78 | 114 |
| y | 2X | Pioneer brand 3369A | 118 | 84 | 133 | 140 | 88 | 147 |
| y | 2X | RA 1604 | 118 | 82 | 161 | 134 | 89 | 122 |
| w | 3X | DeKalb XL390B | 117 | 68 | 158 | 147 | 85 | 127 |
| y | 2X | Zimmerman Z-24Y | 117 | 89 | 157 | 122 | 91 | 124 |
| y | M2X | Pioneer brand 3187 <u>8/</u> | 116 | 78 | 148 | 142 | 83 | 128 |
| y | 2X | T.E. 6995 | 114 | 79 | 117 | 145 | 88 | 140 |
| y | 2X | Golden Harvest H-2630 | 114 | 87 | 147 | 142 | 83 | 109 |
| y | 2X | O's Gold 5291 | 114 | 85 | 136 | 134 | 85 | 129 |
| y | 2X | Golden Harvest H-2680 | 113 | 80 | 153 | 137 | 69 | 126 |
| y | 2X | Trojan TXS115A | 113 | 79 | 133 | 134 | 87 | 132 |
| y | 2X | Asgrow RX777 | 112 | 78 | 143 | 130 | 81 | 129 |
| w | M3X | Funk G-4779W | 111 | 73 | 158 | 132 | 89 | 104 |
| y | 3X | DeKalb XL72BB | 111 | 73 | 153 | 114 | 83 | 131 |
| y | 2X | Golden Harvest H-2686 | 110 | 64 | 157 | 134 | 76 | 120 |
| y | M2X | USS 1516 | 109 | 80 | 140 | 135 | 73 | 117 |
| y | M2X | Coker 19A | 108 | 87 | 126 | 136 | 77 | 113 |
| y | 2X | Funk G-4525A | 106 | 73 | 131 | 128 | 76 | 122 |
| y | 2X | N.K. PX74 | 104 | 81 | 123 | 129 | 79 | 110 |
| y | M2X | Pioneer brand 3328 | 104 | 84 | 119 | 110 | 88 | 120 |
| y | M2X | Funk G-4606 | 100 | 66 | 125 | 117 | 68 | 125 |
| y | 2X | T.E. 6945 | 100 | 57 | 134 | 119 | 78 | 110 |
| L.S.D. (.05) | | | 9.6 | 16.4 | 13.3 | 25.6 | 17.1 | N.S. |
| C.V. % | | | 13.2 | 14.4 | 6.5 | 15.8 | 13.9 | 17.0 |
| Avg. | | | 116.7 | 81.6 | 147.2 | 138.8 | 87.9 | 127.9 |

Hermitage and Lindside silt loam (2% to 5% slopes). 8/ Tested in previous years as X7509.
Sequatchie loam (2% to 5% slopes).
Huntington silt loam local alluvium (2% to 5% slopes).
Maury silt loam (2% to 5% slopes).
Falaya silt loam (2% to 5% slopes).
Tested in previous years as 18029.
Tested in previous years as 18030.

Table 2. Corn: Yield and other characteristics of 40 medium-season hybrids evaluated at six locations in 1982.

| Color | Cross | Hybrid | Yield Bu/A | Erect plants % | Grain quality Rating ^{1/} | Husk cover Rating ^{1/} | Ear ht. in. | Grain moisture at harvest % |
|--------------|-------|-----------------------|---------------|----------------------|--|---------------------------------------|-------------------|---|
| y | 2X | Pioneer brand 3147 | 135 | 98 | 3.5 | 3.8 | 56 | 23.4 |
| y | 2X | Pioneer brand 3320 | 132 | 99 | 2.2 | 3.4 | 49 | 20.2 |
| y | 2X | DeKalb 28012 | 126 | 99 | 3.5 | 3.9 | 55 | 21.8 |
| y | 2X | Pioneer brand 3184 | 125 | 100 | 3.5 | 4.6 | 51 | 22.8 |
| y | 2X | DeKalb EX7979 | 124 | 100 | 3.8 | 3.1 | 55 | 20.9 |
| y | 2X | McCurdy 8150 | 124 | 97 | 3.4 | 2.9 | 57 | 23.0 |
| y | 2X | Coker 21 | 123 | 98 | 3.9 | 3.2 | 54 | 23.3 |
| y | 2X | Stauffer S8500 | 123 | 96 | 3.1 | 4.0 | 51 | 21.0 |
| y | 2X | DeKalb XL71 | 122 | 98 | 4.1 | 4.1 | 51 | 20.4 |
| y | M2X | Funk G-4733 | 122 | 99 | 3.0 | 3.4 | 53 | 22.8 |
| y | 2X | USS 1515 | 122 | 98 | 3.8 | 3.9 | 49 | 21.2 |
| w | 3X | O's Gold 2680W | 122 | 98 | 3.6 | 2.9 | 62 | 22.0 |
| y | 2X | DeKalb 28010 | 121 | 98 | 4.0 | 3.5 | 54 | 21.7 |
| y | M2X | Funk EX29092 | 121 | 100 | 3.2 | 3.2 | 54 | 22.6 |
| y | 2X | McCurdy 7978 | 120 | 98 | 2.9 | 3.5 | 55 | 21.2 |
| y | 2X | N.K. PX79 | 120 | 100 | 4.5 | 3.5 | 52 | 19.4 |
| y | 2X | FFR 848C | 120 | 98 | 3.0 | 3.1 | 58 | 20.3 |
| y | 2X | RA 1502 | 120 | 97 | 3.6 | 4.0 | 50 | 20.7 |
| y | 2X | O's Gold 5509 | 119 | 97 | 3.9 | 3.6 | 53 | 22.7 |
| y | 2X | Pioneer brand 3369A | 118 | 100 | 3.6 | 4.2 | 48 | 19.8 |
| y | 2X | RA 1604 | 118 | 94 | 3.6 | 3.2 | 52 | 22.2 |
| w | 3X | DeKalb XL390B | 117 | 94 | 4.2 | 2.9 | 56 | 22.1 |
| y | 2X | Zimmerman Z-24Y | 117 | 97 | 2.9 | 3.5 | 47 | 19.6 |
| y | M2X | Pioneer brand 3187 | 116 | 99 | 3.8 | 3.0 | 53 | 20.1 |
| y | 2X | T.E. 6995 | 114 | 100 | 4.6 | 4.1 | 49 | 19.6 |
| y | 2X | Golden Harvest H-2630 | 114 | 99 | 4.2 | 3.7 | 56 | 20.4 |
| y | 2X | O's Gold 5291 | 114 | 94 | 4.3 | 3.3 | 46 | 21.4 |
| y | 2X | Golden Harvest H-2680 | 113 | 95 | 4.0 | 3.4 | 51 | 22.6 |
| y | 2X | Trojan TXS115A | 113 | 96 | 4.5 | 3.9 | 47 | 18.9 |
| y | 2X | Asgrow RX777 | 112 | 96 | 3.2 | 3.5 | 49 | 19.5 |
| w | M3X | Funk G-4779W | 111 | 98 | 3.5 | 2.7 | 58 | 22.5 |
| y | 3X | DeKalb XL72BB | 111 | 100 | 3.8 | 4.3 | 51 | 23.1 |
| y | 2X | Golden Harvest H-2686 | 110 | 94 | 3.9 | 3.9 | 53 | 23.5 |
| y | M2X | USS 1516 | 109 | 94 | 4.5 | 3.8 | 50 | 20.0 |
| y | M2X | Coker 19A | 108 | 100 | 4.1 | 3.3 | 52 | 21.1 |
| y | 2X | Funk G-4525A | 106 | 94 | 3.6 | 3.2 | 49 | 17.6 |
| y | 2X | N.K. PX74 | 104 | 98 | 4.5 | 3.6 | 50 | 19.2 |
| y | M2X | Pioneer brand 3328 | 104 | 99 | 3.9 | 3.5 | 52 | 20.6 |
| y | M2X | Funk G-4606 | 100 | 98 | 4.6 | 3.7 | 48 | 20.0 |
| y | 2X | T.E. 6945 | 100 | 97 | 4.0 | 3.8 | 48 | 18.7 |
| L.S.D. (.05) | | | 9.6 | - | - | - | - | - |
| C.V. % | | | 13.2 | - | - | - | - | - |
| Avg. | | | 116.7 | - | - | - | - | - |

^{1/} Rating was based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 3. Corn: Yield and other characteristics of 40 medium-season hybrids evaluated at Crossville in 1982^{1/}.

| Color | Cross | Hybrid | Yield Bu/A | Erect plants % | Grain quality Rating ^{2/} | Husk cover Rating ^{2/} | Ear ht. in. | Grain moisture at harvest % |
|--------------|-------|-----------------------|---------------|----------------------|--|---------------------------------------|-------------------|---|
| y | 2X | RA 1604 | 193 | 100 | 3.0 | 3.5 | 54 | 24.9 |
| y | 2X | DeKalb EX7979 | 189 | 93 | 3.0 | 3.5 | 54 | 25.0 |
| y | 2X | O's Gold 5509 | 182 | 98 | 3.0 | 3.0 | 50 | 25.0 |
| y | 2X | Golden Harvest H-2686 | 182 | 96 | 2.5 | 4.0 | 58 | 29.8 |
| y | 2X | Golden Harvest H-2680 | 180 | 96 | 3.0 | 3.5 | 52 | 26.3 |
| y | 2X | Coker 21 | 179 | 95 | 3.5 | 3.5 | 54 | 25.1 |
| w | 3X | DeKalb XL390B | 179 | 96 | 3.5 | 2.5 | 54 | 24.2 |
| y | 2X | DeKalb 28010 | 177 | 100 | 3.0 | 4.5 | 56 | 24.1 |
| y | 2X | Pioneer brand 3147 | 175 | 91 | 3.5 | 3.5 | 55 | 25.4 |
| y | 2X | RA 1502 | 175 | 100 | 3.5 | 2.5 | 51 | 23.4 |
| y | 2X | Pioneer brand 3320 | 174 | 100 | 2.0 | 3.5 | 51 | 22.5 |
| w | 3X | O's Gold 2680W | 174 | 96 | 3.0 | 3.0 | 56 | 25.4 |
| y | 2X | DeKalb XL71 | 174 | 100 | 2.5 | 3.5 | 50 | 25.3 |
| y | 2X | Zimmerman Z-24Y | 172 | 100 | 2.0 | 3.5 | 50 | 23.8 |
| y | M2X | Funk's EX29092 | 172 | 98 | 3.0 | 3.0 | 54 | 26.0 |
| y | 2X | Pioneer brand 3184 | 169 | 98 | 3.0 | 4.5 | 52 | 23.8 |
| y | 2X | Pioneer brand 3369A | 168 | 98 | 3.0 | 3.5 | 44 | 22.8 |
| y | M2X | Funk G-4733 | 164 | 100 | 3.0 | 3.0 | 56 | 24.2 |
| y | 2X | McCurdy 8150 | 164 | 93 | 3.0 | 3.0 | 58 | 27.9 |
| y | M2X | Coker 19A | 164 | 100 | 3.0 | 4.0 | 52 | 23.3 |
| y | M2X | Pioneer brand 3187 | 160 | 100 | 2.5 | 2.5 | 56 | 24.8 |
| y | 2X | O's Gold 5291 | 160 | 100 | 4.0 | 3.5 | 48 | 24.5 |
| y | 2X | Golden Harvest H-2630 | 157 | 98 | 4.0 | 4.0 | 54 | 23.2 |
| w | M3X | Funk G-4779W | 157 | 91 | 3.0 | 3.0 | 58 | 27.6 |
| y | 2X | DeKalb 28012 | 154 | 91 | 3.0 | 4.0 | 47 | 26.7 |
| y | 2X | USS 1515 | 153 | 98 | 4.0 | 3.0 | 49 | 23.0 |
| y | M2X | USS 1516 | 153 | 93 | 3.5 | 3.0 | 50 | 25.0 |
| y | 2X | Stauffer S8500 | 151 | 89 | 3.5 | 4.5 | 52 | 24.0 |
| y | 2X | McCurdy 7978 | 150 | 100 | 3.0 | 4.5 | 54 | 23.0 |
| y | M2X | Funk G-4606 | 149 | 96 | 3.5 | 3.0 | 48 | 23.6 |
| y | 2X | Asgrow RX777 | 148 | 71 | 3.0 | 4.0 | 50 | 21.8 |
| y | 2X | N.K. PX79 | 147 | 98 | 3.0 | 4.5 | 48 | 21.8 |
| y | 3X | DeKalb XL72BB | 146 | 98 | 4.0 | 4.5 | 56 | 26.2 |
| y | 2X | Trojan TXS115A | 145 | 93 | 3.5 | 3.5 | 46 | 21.8 |
| y | 2X | FFR 848C | 146 | 84 | 2.5 | 3.0 | 56 | 23.8 |
| y | M2X | Pioneer brand 3328 | 144 | 100 | 2.5 | 3.0 | 51 | 25.5 |
| y | 2X | T.E. 6945 | 143 | 93 | 3.5 | 5.0 | 50 | 23.9 |
| y | 2X | N.K. PX74 | 141 | 93 | 3.5 | 3.0 | 50 | 21.0 |
| y | 2X | Funk G-4525A | 140 | 100 | 3.5 | 3.0 | 50 | 21.0 |
| y | 2X | T.E. 6995 | 139 | 89 | 3.5 | 3.5 | 48 | 22.4 |
| L.S.D. (.05) | | | 15.8 | | | | | |
| C.V. % | | | 7.0 | | | | | |
| Avg. | | | 162.2 | | | | | |

^{1/} Hartsells loam (2% to 5% slopes).

^{2/} Rating was based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 4. Corn: Yield of 24 medium-season hybrids evaluated at five locations for 2 years (1981-82).

| Color | Cross | Hybrid | 1981-82 Avg. | Greene- ville | Knox- ville | Spring- field | Spring Hill | Martin |
|------------------|-------|-----------------------|-----------------|------------------|----------------|------------------|----------------|--------|
| Bushels per acre | | | | | | | | |
| y | 2X | Pioneer brand 3147 | 145 | 145 | 168 | 164 | 115 | 133 |
| y | 2X | Pioneer brand 3184 | 135 | 130 | 159 | 152 | 114 | 121 |
| y | 2X | DeKalb EX7979 | 132 | 126 | 154 | 166 | 105 | 110 |
| w | 3X | DeKalb XL390B | 132 | 128 | 160 | 153 | 99 | 119 |
| y | 2X | Pioneer brand 3320 | 132 | 135 | 147 | 146 | 110 | 120 |
| y | M2X | Funk G-4733 | 129 | 119 | 148 | 149 | 107 | 124 |
| y | 2X | Coker 21 | 129 | 116 | 148 | 158 | 99 | 124 |
| y | 2X | Pioneer brand 3369A | 129 | 126 | 140 | 142 | 110 | 126 |
| y | 2X | McCurdy 8150 | 129 | 120 | 147 | 143 | 110 | 124 |
| y | 2X | Zimmerman Z-24Y | 128 | 128 | 154 | 135 | 110 | 116 |
| w | 3X | O's Gold 2680W | 128 | 110 | 156 | 167 | 102 | 105 |
| y | 2X | McCurdy 7978 | 128 | 125 | 145 | 141 | 113 | 114 |
| y | 2X | RA 1502 | 127 | 120 | 136 | 134 | 100 | 144 |
| y | 2X | O's Gold SX5509 | 127 | 126 | 147 | 159 | 100 | 103 |
| y | 2X | RA 1604 | 126 | 125 | 149 | 141 | 102 | 112 |
| y | M2X | Pioneer brand 3187 | 126 | 121 | 145 | 142 | 105 | 114 |
| y | 2X | Golden Harvest H-2686 | 125 | 112 | 148 | 152 | 94 | 117 |
| y | 2X | Golden Harvest H-2680 | 125 | 113 | 148 | 142 | 95 | 125 |
| y | M2X | Coker 19A | 123 | 118 | 133 | 137 | 103 | 125 |
| y | 3X | DeKalb XL72BB | 121 | 117 | 143 | 128 | 102 | 117 |
| y | 2X | T.E. 6995 | 117 | 108 | 119 | 136 | 105 | 118 |
| y | M2X | Funk G-4606 | 114 | 107 | 126 | 132 | 91 | 116 |
| y | 2X | Funk G-4525A | 114 | 105 | 136 | 133 | 91 | 107 |
| y | M2X | Pioneer brand 3328 | 111 | 109 | 123 | 116 | 102 | 106 |

Table 5. Corn: Yield and other characteristics of 24 medium-season hybrids evaluated at five locations for 2 years (1981-82).

| Color | Cross | Hybrid | 1981-82 Avg. | Erect plants % | Grain quality Rating ^{1/} | Husk cover Rating ^{1/} | Ear ht. in. | Grain moistur at harvest % |
|-------|-------|-----------------------|-----------------|----------------------|--|---------------------------------------|-------------------|--|
| y | 2X | Pioneer brand 3147 | 145 | 98 | 4.2 | 4.1 | 57 | 21.4 |
| y | 2X | Pioneer brand 3184 | 135 | 100 | 3.6 | 4.6 | 50 | 21.2 |
| y | 2X | DeKalb EX7979 | 132 | 99 | 4.2 | 3.1 | 55 | 19.6 |
| w | 3X | DeKalb XL390B | 132 | 96 | 4.2 | 3.0 | 58 | 20.6 |
| y | 2X | Pioneer brand 3320 | 132 | 98 | 2.4 | 3.4 | 50 | 19.2 |
| y | M2X | Funk G-4733 | 129 | 99 | 2.8 | 3.4 | 54 | 19.6 |
| y | 2X | Coker 21 | 129 | 99 | 3.9 | 3.4 | 53 | 21.4 |
| y | 2X | Pioneer brand 3369A | 129 | 100 | 3.1 | 4.4 | 50 | 18.4 |
| y | 2X | McCurdy 8150 | 129 | 98 | 3.5 | 3.0 | 58 | 21.2 |
| y | 2X | Zimmerman Z-24Y | 128 | 97 | 2.8 | 3.8 | 50 | 18.5 |
| w | 3X | O's Gold 2680W | 128 | 99 | 3.0 | 2.9 | 63 | 21.2 |
| y | 2X | McCurdy 7978 | 128 | 97 | 3.0 | 3.7 | 56 | 19.4 |
| y | 2X | RA 1502 | 127 | 98 | 3.9 | 4.0 | 51 | 19.5 |
| y | 2X | O's Gold SX5509 | 127 | 98 | 3.8 | 3.4 | 54 | 21.1 |
| y | 2X | RA 1604 | 126 | 96 | 4.0 | 3.4 | 52 | 21.0 |
| y | M2X | Pioneer brand 3187 | 126 | 98 | 3.2 | 3.4 | 55 | 19.2 |
| y | 2X | Golden Harvest H-2686 | 125 | 97 | 3.8 | 4.2 | 55 | 21.6 |
| y | 2X | Golden Harvest H-2680 | 125 | 96 | 4.0 | 3.4 | 51 | 21.2 |
| y | M2X | Coker 19A | 123 | 100 | 4.1 | 3.5 | 53 | 21.1 |
| y | 3X | DeKalb XL72BB | 121 | 99 | 3.9 | 4.6 | 53 | 20.7 |
| y | 2X | T.E. 6995 | 117 | 98 | 4.7 | 4.4 | 51 | 18.0 |
| y | M2X | Funk G-4606 | 114 | 99 | 4.4 | 3.9 | 50 | 18.5 |
| y | 2X | Funk G-4525A | 114 | 95 | 3.4 | 3.0 | 50 | 17.5 |
| y | M2X | Pioneer brand 3328 | 111 | 98 | 3.9 | 3.6 | 52 | 20.6 |

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 6. Corn: Yield of 14 medium-season hybrids evaluated at four locations for 3 years (1980-82).

| Color | Cross | Hybrid | 1980-82 Avg. | Greene- ville | Knox- ville | Spring- field | Martin |
|------------------|-------|---------------------|-----------------|------------------|----------------|------------------|--------|
| Bushels per acre | | | | | | | |
| y | 2X | Pioneer brand 3147 | 142 | 127 | 152 | 161 | 128 |
| y | 2X | Pioneer brand 3320 | 128 | 118 | 139 | 141 | 116 |
| y | 2X | Pioneer brand 3184 | 127 | 113 | 140 | 143 | 114 |
| w | 3X | DeKalb XL390B | 127 | 104 | 141 | 153 | 109 |
| y | 2X | Pioneer brand 3369A | 125 | 110 | 131 | 139 | 120 |
| y | 2X | McCurdy 8150 | 125 | 107 | 134 | 140 | 118 |
| y | 2X | McCurdy 7978 | 123 | 110 | 132 | 138 | 113 |
| y | 2X | RA 1502 | 123 | 105 | 126 | 130 | 130 |
| y | 2X | O's Gold SX5509 | 122 | 107 | 133 | 148 | 101 |
| y | 2X | RA 1604 | 122 | 111 | 134 | 132 | 112 |
| y | 3X | DeKalb XL72BB | 118 | 105 | 133 | 125 | 110 |
| y | 2X | T.E. 6995 | 114 | 96 | 114 | 132 | 116 |
| y | M2X | Funk G-4606 | 112 | 95 | 116 | 129 | 107 |
| y | 2X | Funk G-4525A | 110 | 95 | 124 | 123 | 98 |

Table 7. Corn: Yield and other characteristics of 14 medium-season hybrids evaluated at four locations for 3 years (1980-82).

| Color | Cross | Hybrid | 1980-82 Avg. Yield Bu/A | Erect plants % | Quality Rating ^{1/} | Husk Cover Rating ^{1/} | Ear ht. in. | Grain moisture at harvest % |
|-------|-------|---------------------|----------------------------------|----------------------|---------------------------------|---------------------------------------|-------------------|---|
| y | 2X | Pioneer brand 3147 | 142 | 97 | 4.1 | 4.0 | 56 | 20.4 |
| y | 2X | Pioneer brand 3320 | 128 | 99 | 2.5 | 3.2 | 48 | 18.9 |
| y | 2X | Pioneer brand 3184 | 127 | 100 | 3.3 | 4.0 | 48 | 20.4 |
| w | 3X | DeKalb XL390B | 127 | 95 | 4.4 | 2.8 | 57 | 20.0 |
| y | 2X | Pioneer brand 3369A | 125 | 100 | 3.0 | 4.2 | 49 | 17.7 |
| y | 2X | McCurdy 8150 | 125 | 98 | 3.3 | 2.6 | 56 | 20.5 |
| y | 2X | McCurdy 7978 | 123 | 98 | 3.0 | 3.4 | 54 | 19.0 |
| y | 2X | RA 1502 | 123 | 97 | 3.7 | 3.6 | 49 | 19.1 |
| y | 2X | O's Gold SX5509 | 122 | 98 | 4.1 | 3.2 | 51 | 20.5 |
| y | 2X | RA 1604 | 122 | 96 | 4.2 | 3.3 | 50 | 20.4 |
| y | 3X | DeKalb XL72BB | 118 | 99 | 3.9 | 4.3 | 51 | 20.2 |
| y | 2X | T.E. 6995 | 114 | 97 | 4.6 | 4.2 | 49 | 17.2 |
| y | M2X | Funk G-4606 | 112 | 97 | 4.5 | 4.0 | 48 | 17.7 |
| y | 2X | Funk G-4525A | 110 | 96 | 3.5 | 3.0 | 47 | 16.6 |

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 8. Corn: Yield of 42 full-season hybrids evaluated at four locations in 1982.

| Color | Cross | Hybrid | Avg. | Knox ^{1/} | Spring ^{2/} | Jackson ^{3/} | Ames ^{4/} |
|------------------|-------|-----------------------------|-------|--------------------|----------------------|-----------------------|--------------------|
| | | | | ville | Hill | | Plantation |
| Bushels per acre | | | | | | | |
| y | 2X | Pioneer brand 3165 | 148 | 181 | 127 | 143 | 142 |
| y | M2X | Pioneer brand 3160 | 138 | 175 | 109 | 149 | 125 |
| y | 2X | DeKalb 29014 ^{5/} | 134 | 169 | 100 | 151 | 114 |
| y | M2X | Pioneer brand 3147 | 133 | 157 | 105 | 140 | 125 |
| y | 2X | McCurdy 80-72 | 132 | 164 | 96 | 148 | 123 |
| | | | | | | | |
| y | M2X | Funk G-4740 | 131 | 157 | 107 | 136 | 123 |
| y | 2X | DeKalb EX8989 ^{6/} | 130 | 163 | 103 | 146 | 113 |
| w | 2X | DeKalb 24301 ^{7/} | 128 | 161 | 92 | 153 | 106 |
| w | 2X | Zimmerman Z-11W | 127 | 164 | 100 | 146 | 98 |
| w | M2X | Stauffer S8820W | 124 | 168 | 102 | 137 | 100 |
| | | | | | | | |
| w | 2X | Asgrow RX962W | 124 | 171 | 90 | 125 | 106 |
| y | 3X | N.K. PX715 | 124 | 147 | 100 | 140 | 103 |
| w | 2X | Zimmerman Z-52W | 122 | 161 | 99 | 131 | 97 |
| w | 2X | Golden Harvest H-2660W | 122 | 157 | 90 | 133 | 106 |
| y | 3X | DeKalb XL394 | 121 | 155 | 92 | 138 | 103 |
| | | | | | | | |
| y | 2X | N.K. PX95 | 121 | 167 | 94 | 139 | 84 |
| y | 2X | Golden Harvest H-2775A | 120 | 152 | 85 | 132 | 113 |
| y | 2X | Super Crost 6762 | 121 | 150 | 96 | 130 | 103 |
| w | M2X | RA X9609W | 120 | 155 | 94 | 126 | 103 |
| y | 2X | USS 2020 | 120 | 153 | 85 | 141 | 99 |
| | | | | | | | |
| w | 3X | RA 3605W | 119 | 154 | 98 | 127 | 94 |
| w | 3X | FFR 929W | 119 | 160 | 88 | 135 | 94 |
| y | M2X | FFR 955C | 119 | 162 | 95 | 132 | 96 |
| y | M2X | Super Crost 7795 | 119 | 144 | 95 | 136 | 110 |
| w | 2X | Pioneer brand 519 | 119 | 147 | 96 | 138 | 98 |
| | | | | | | | |
| w | SP2X | Princeton SP936 | 118 | 156 | 94 | 132 | 92 |
| y | 3X | Golden Harvest H-2695 | 118 | 154 | 96 | 123 | 93 |
| y | 2X | AgriGold A-6910 | 117 | 142 | 90 | 131 | 108 |
| w | | TR 2051 | 117 | 164 | 84 | 124 | 96 |
| y | 2X | McCurdy 8230 | 117 | 155 | 96 | 119 | 104 |
| | | | | | | | |
| y | 2X | FFR 905C | 116 | 159 | 83 | 125 | 98 |
| w | 2X | Princeton SX910 | 116 | 158 | 84 | 130 | 99 |
| w | M2X | RA 2602W | 116 | 159 | 91 | 130 | 90 |
| y | 2X | Gold Kist 925 | 116 | 145 | 96 | 126 | 97 |
| y | 2X | Super Crost 7801 | 116 | 154 | 84 | 131 | 97 |
| | | | | | | | |
| y | 2X | Trojan T1230 | 114 | 169 | 75 | 133 | 85 |
| y | 2X | Cargill 951 | 114 | 130 | 81 | 143 | 99 |
| y | 2X | Princeton SX870 | 113 | 153 | 84 | 126 | 94 |
| y | 3X | N.K. PX707 | 113 | 142 | 90 | 128 | 96 |
| y | 2X | Coker 22 | 110 | 151 | 72 | 127 | 92 |
| | | | | | | | |
| y | 2X | Princeton SX860 | 107 | 132 | 74 | 118 | 103 |
| y | 2X | T.E. 6995A | 107 | 130 | 98 | 112 | 84 |
| | | | | | | | |
| L.S.D. (.05) | | | 9.3 | 15.2 | 17.4 | N.S. | 19.5 |
| C.V. % | | | 11.1 | 7.0 | 13.4 | 13.3 | 13.6 |
| Avg. | | | 121.0 | 155.8 | 93.1 | 133.6 | 102.5 |

^{1/} Sequatchie loam (2% to 5% slopes).

^{2/} Maury silt loam (2% to 5% slopes).

^{3/} Memphis silt loam (2% to 5% slopes).

^{4/} Loring silt loam (2% to 5% slopes).

^{5/} Tested in previous years as 19030.

^{6/} Tested in previous years as 19010.

^{7/} Tested in previous years as 18317.

Table 9. Corn: Yield and other characteristics of 42 full-season hybrids evaluated at four locations in 1982.

| Color | Cross | Hybrid | Yield Bu/A | Erect plants % | Grain quality Rating ^{1/} | Husk cover Rating ^{1/} | Ear ht. in. | Grain moisture at harvest |
|--------------|-------|------------------------|---------------|----------------------|--|---------------------------------------|-------------------|------------------------------------|
| | | | | | | | | % |
| y | 2X | Pioneer brand 3165 | 148 | 99 | 2.2 | 3.6 | 55 | 23.7 |
| y | M2X | Pioneer brand 3160 | 138 | 100 | 2.0 | 3.2 | 52 | 22.7 |
| y | 2X | DeKalb 29014 | 134 | 99 | 4.0 | 4.2 | 60 | 26.2 |
| y | M2X | Pioneer brand 3147 | 133 | 98 | 4.2 | 3.6 | 54 | 26.3 |
| y | 2X | McCurdy 80-72 | 132 | 99 | 2.8 | 3.6 | 58 | 25.6 |
| | | | | | | | | |
| y | M2X | Funk G-4740 | 131 | 99 | 3.0 | 4.2 | 47 | 23.2 |
| y | 2X | DeKalb EX8989 | 130 | 99 | 3.8 | 4.2 | 56 | 26.0 |
| w | 2X | DeKalb 24301 | 128 | 99 | 3.2 | 3.0 | 50 | 22.4 |
| w | 2X | Zimmerman Z-11W | 127 | 97 | 3.0 | 2.4 | 59 | 23.9 |
| w | M2X | Stauffer S8820W | 124 | 97 | 3.5 | 2.6 | 57 | 25.4 |
| | | | | | | | | |
| w | 2X | Asgrow RX962W | 124 | 99 | 3.2 | 3.0 | 55 | 24.8 |
| y | 3X | N.K. PX715 | 124 | 98 | 5.2 | 4.4 | 56 | 23.2 |
| w | 2X | Zimmerman Z-52W | 122 | 98 | 3.5 | 3.0 | 59 | 24.6 |
| w | 2X | Golden Harvest H-2660W | 122 | 97 | 3.0 | 3.0 | 56 | 25.0 |
| y | 3X | DeKalb XL394 | 121 | 98 | 2.8 | 3.0 | 60 | 27.1 |
| | | | | | | | | |
| y | 2X | N.K. PX95 | 121 | 98 | 3.5 | 3.6 | 57 | 25.3 |
| y | 2X | Golden Harvest H-2775A | 120 | 93 | 3.5 | 3.2 | 48 | 22.7 |
| y | 2X | Super Crost 6762 | 121 | 97 | 3.5 | 3.2 | 50 | 23.9 |
| w | M2X | RA X9609W | 120 | 96 | 3.2 | 3.2 | 52 | 26.4 |
| y | 2X | USS 2020 | 120 | 96 | 4.0 | 3.2 | 50 | 25.3 |
| | | | | | | | | |
| w | 3X | RA 3605W | 119 | 96 | 3.5 | 2.6 | 55 | 25.5 |
| w | 3X | FFR 929W | 119 | 96 | 4.0 | 2.8 | 59 | 23.3 |
| y | M2X | FFR 955C | 119 | 99 | 2.2 | 4.0 | 56 | 24.3 |
| y | M2X | Super Crost 7795 | 119 | 99 | 3.0 | 3.6 | 55 | 23.1 |
| w | 2X | Pioneer brand 519 | 119 | 99 | 2.8 | 1.8 | 57 | 21.0 |
| | | | | | | | | |
| w | SP2X | Princeton SP936 | 118 | 99 | 3.8 | 3.6 | 60 | 26.3 |
| y | 3X | Golden Harvest H-2695 | 118 | 96 | 3.8 | 3.4 | 50 | 23.9 |
| y | 2X | AgriGold A-6910 | 117 | 96 | 4.0 | 4.2 | 49 | 22.5 |
| w | | TR 2051 | 117 | 99 | 3.0 | 2.4 | 58 | 23.9 |
| y | 2X | McCurdy 8230 | 117 | 96 | 2.8 | 3.2 | 57 | 26.9 |
| | | | | | | | | |
| y | 2X | FFR 905C | 116 | 97 | 4.5 | 3.8 | 52 | 25.2 |
| w | 2X | Princeton SX910 | 116 | 96 | 3.0 | 2.6 | 54 | 25.1 |
| w | M2X | RA 2602W | 116 | 98 | 3.5 | 3.0 | 57 | 24.4 |
| y | 2X | Gold Kist 925 | 116 | 93 | 4.2 | 4.2 | 53 | 25.0 |
| y | 2X | Super Crost 7801 | 116 | 98 | 3.5 | 3.2 | 51 | 25.1 |
| | | | | | | | | |
| y | 2X | Trojan T1230 | 114 | 96 | 4.2 | 3.6 | 52 | 25.2 |
| y | 2X | Cargill 951 | 114 | 99 | 4.2 | 4.2 | 51 | 19.7 |
| y | 2X | Princeton SX870 | 113 | 96 | 4.2 | 3.6 | 51 | 25.1 |
| y | 3X | N. K. PX707 | 113 | 96 | 4.0 | 4.2 | 54 | 23.2 |
| y | 2X | Coker 22 | 110 | 94 | 4.0 | 3.2 | 50 | 24.1 |
| | | | | | | | | |
| y | 2X | Princeton SX860 | 107 | 97 | 4.2 | 5.0 | 50 | 21.2 |
| y | 2X | T.E. 6995A | 107 | 100 | 5.2 | 4.2 | 49 | 19.8 |
| L.S.D. (.05) | | | 9.3 | | | | | |
| C.V. % | | | 11.1 | | | | | |
| Avg. | | | 121.0 | | | | | |

^{1/} A rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 10. Corn: Yield of 28 full-season hybrids evaluated at four locations for 2 years (1981-82).

| Color | Cross | Hybrid | 1981-82 | Knox- | Spring | Ames | |
|------------------|-------|------------------------|---------|-------|--------|---------|------------|
| | | | Avg. | ville | Hill | Jackson | Plantation |
| Bushels per acre | | | | | | | |
| y | 2X | Pioneer brand 3147 | 140 | 164 | 119 | 143 | 133 |
| y | M2X | Funk G-4740 | 139 | 154 | 118 | 142 | 138 |
| y | M2X | Pioneer brand 3160 | 138 | 167 | 123 | 138 | 122 |
| y | 2X | DeKalb EX8989 | 137 | 159 | 114 | 139 | 136 |
| y | 2X | DeKalb 29014 | 134 | 156 | 115 | 142 | 124 |
| | | | | | | | |
| w | 2X | Zimmerman Z-11W | 131 | 167 | 111 | 139 | 108 |
| y | 2X | Super Crost 6762 | 130 | 154 | 116 | 124 | 127 |
| y | M2X | FFR 955C | 130 | 165 | 103 | 131 | 120 |
| y | M2X | Super Crost 7795 | 127 | 148 | 114 | 127 | 121 |
| w | 2X | Zimmerman Z-52W | 127 | 158 | 101 | 134 | 115 |
| | | | | | | | |
| y | 2X | Golden Harvest H-2775A | 127 | 156 | 102 | 128 | 122 |
| w | 2X | Golden Harvest H-2660W | 127 | 159 | 104 | 134 | 111 |
| y | 3X | DeKalb XL394 | 126 | 148 | 110 | 134 | 111 |
| w | SP2X | Princeton SP936 | 124 | 158 | 104 | 126 | 110 |
| y | 2X | McCurdy 8230 | 124 | 158 | 109 | 116 | 111 |
| | | | | | | | |
| w | M2X | RA 2602W | 122 | 161 | 104 | 128 | 95 |
| w | 3X | FFR 929W | 122 | 151 | 103 | 128 | 105 |
| w | 3X | RA 3605W | 122 | 151 | 107 | 126 | 104 |
| y | 2X | FFR 905C | 122 | 151 | 94 | 124 | 117 |
| w | 2X | Princeton SX910 | 121 | 158 | 97 | 132 | 99 |
| | | | | | | | |
| w | 2X | Pioneer brand 519 | 121 | 139 | 104 | 127 | 112 |
| y | 2X | Gold Kist 925 | 120 | 153 | 98 | 127 | 104 |
| y | 2X | USS 2020 | 120 | 150 | 93 | 134 | 105 |
| y | 2X | Princeton SX870 | 120 | 153 | 96 | 127 | 106 |
| y | 2X | Trojan T1230 | 119 | 162 | 88 | 126 | 101 |
| | | | | | | | |
| y | 2X | Super Crost 9801 | 119 | 147 | 97 | 122 | 109 |
| y | 2X | T.E. 6995A | 118 | 136 | 110 | 118 | 109 |
| y | 2X | Coker 22 | 113 | 145 | 86 | 121 | 101 |

Table 11. Corn: Yield and other characteristics of 28 full-season hybrids evaluated at four locations for 2 years (1981-82).

| Color | Cross | Hybrid | 1981-82 | Erect plants % | Quality Rating ^{1/} | Husk cover Rating ^{1/} | Plant ht. in. | Grain |
|-------|-------|------------------------|-----------------------|----------------------|---------------------------------|---------------------------------------|---------------------|--------------------------------|
| | | | avg. yield Bu/A | | | | | moisture at harvest % |
| y | 2X | Pioneer brand 3147 | 140 | 97 | 4.1 | 3.9 | 49 | 21.8 |
| y | M2X | Funk G-4740 | 139 | 99 | 3.2 | 4.6 | 48 | 20.2 |
| y | M2X | Pioneer brand 3160 | 138 | 99 | 2.0 | 3.0 | 54 | 20.2 |
| y | 2X | DeKalb EX8989 | 137 | 98 | 3.9 | 4.2 | 55 | 22.3 |
| y | 2X | DeKalb 29014 | 134 | 99 | 4.2 | 4.2 | 61 | 22.2 |
| w | 2X | Zimmerman Z-11W | 131 | 97 | 2.9 | 2.6 | 61 | 21.0 |
| y | 2X | Super Crost 6762 | 130 | 97 | 3.4 | 3.0 | 51 | 20.4 |
| y | M2X | FFR 955C | 130 | 97 | 2.4 | 3.8 | 57 | 20.7 |
| y | M2X | Super Crost 7795 | 127 | 98 | 3.0 | 3.2 | 54 | 19.4 |
| w | 2X | Zimmerman Z-52W | 127 | 97 | 3.2 | 3.1 | 59 | 21.4 |
| y | 2X | Golden Harvest H-2775A | 127 | 95 | 3.2 | 3.2 | 50 | 20.0 |
| w | 2X | Golden Harvest H-2660W | 127 | 97 | 3.1 | 2.8 | 59 | 21.9 |
| y | 3X | DeKalb XL394 | 126 | 99 | 2.8 | 2.9 | 62 | 22.8 |
| w | SP2X | Princeton SP936 | 124 | 99 | 3.6 | 3.2 | 60 | 22.2 |
| y | 2X | McCurdy 8230 | 124 | 97 | 2.8 | 2.8 | 56 | 23.2 |
| w | M2X | RA 2602W | 122 | 97 | 3.2 | 2.8 | 58 | 21.6 |
| w | 3X | FFR 929W | 122 | 97 | 3.6 | 2.8 | 58 | 20.8 |
| w | 3X | RA 3605W | 122 | 96 | 2.8 | 2.8 | 58 | 22.0 |
| y | 2X | FFR 905C | 122 | 97 | 4.4 | 3.6 | 53 | 21.3 |
| w | 2X | Princeton SX910 | 121 | 97 | 3.0 | 2.4 | 57 | 22.0 |
| w | 2X | Pioneer brand 519 | 121 | 98 | 2.9 | 1.9 | 59 | 19.0 |
| y | 2X | Gold Kist 925 | 120 | 96 | 4.4 | 3.8 | 54 | 21.2 |
| y | 2X | USS 2020 | 120 | 97 | 4.0 | 3.0 | 52 | 21.4 |
| y | 2X | Princeton SX870 | 120 | 97 | 4.1 | 3.6 | 52 | 21.4 |
| y | 2X | Trojan T1230 | 119 | 97 | 4.2 | 3.6 | 52 | 21.4 |
| y | 2X | Super Crost 9801 | 119 | 98 | 4.0 | 3.0 | 53 | 21.1 |
| y | 2X | T.E. 6995A | 118 | 99 | 5.4 | 4.2 | 51 | 17.6 |
| y | 2X | Coker 22 | 113 | 96 | 4.0 | 3.2 | 52 | 20.4 |

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 12. Corn: Yield of 25 early maturing hybrids evaluated at four locations in 1982.

| Color | Cross | Hybrid | Avg. | Knox- <u>1/</u> | Cross- <u>2/</u> | Martin ^{3/} | Ames ^{4/} |
|------------------|-------|------------------------|-------|-----------------|------------------|----------------------|--------------------|
| | | | | ville | ville | Plantation | |
| Bushels per acre | | | | | | | |
| y | 2X | McCurdy 81-82 | 161 | 168 | 186 | 179 | 112 |
| y | 2X | McCurdy 84aa | 156 | 153 | 187 | 169 | 114 |
| y | 2X | Pioneer brand 3358 | 156 | 157 | 186 | 165 | 116 |
| y | 2X | Pioneer brand 3389 | 156 | 166 | 176 | 166 | 115 |
| y | 2X | DeKalb 28035 <u>5/</u> | 153 | 176 | 167 | 159 | 108 |
| | | | | | | | |
| y | 2X | O's Gold 2570 | 153 | 152 | 159 | 172 | 128 |
| y | 2X | DeKalb EX6060 | 150 | 154 | 182 | 165 | 99 |
| y | 2X | DeKalb 28016 <u>6/</u> | 149 | 158 | 175 | 164 | 100 |
| y | 3X | FFR 726C | 142 | 148 | 152 | 161 | 108 |
| y | 2X | McCurdy 81-34 | 142 | 145 | 154 | 165 | 104 |
| | | | | | | | |
| y | 2X | AgriGold A-6612 | 142 | 143 | 160 | 164 | 101 |
| y | M2X | Funk G-4522 | 142 | 147 | 152 | 165 | 103 |
| y | 2X | O's Gold 3344 | 142 | 142 | 146 | 169 | 110 |
| y | 2X | O's Gold 6882 | 140 | 142 | 158 | 158 | 102 |
| y | 2X | FFR 788C | 138 | 135 | 163 | 155 | 99 |
| | | | | | | | |
| y | 2X | Funk G-4507A | 138 | 141 | 141 | 155 | 114 |
| y | 3X | FFR 799C | 137 | 134 | 153 | 151 | 110 |
| y | 2X | Jacques JX180 | 136 | 140 | 138 | 161 | 104 |
| y | M2X | FFR 717C | 136 | 155 | 156 | 137 | 95 |
| y | 2X | Cargill 921 | 136 | 129 | 154 | 159 | 99 |
| | | | | | | | |
| y | 2X | Coker 19 | 135 | 138 | 128 | 159 | 115 |
| y | 2X | RA 1501 | 134 | 126 | 139 | 158 | 115 |
| w | 2X | O's Gold 2560W | 134 | 140 | 163 | 134 | 97 |
| y | 2X | Gold Kist 695 | 131 | 130 | 154 | 150 | 91 |
| y | 2X | FFR 744C | 128 | 126 | 144 | 150 | 94 |
| | | | | | | | |
| L.S.D. (.05) | | | 7.3 | 12.9 | 14.9 | 16.1 | 15.1 |
| C.V. % | | | 7.3 | 6.2 | 6.6 | 7.3 | 10.1 |
| Avg. | | | 142.6 | 145.9 | 158.9 | 159.7 | 106.1 |

- ^{1/} Sequatchie loam (2% to 5% slopes).
^{2/} Hartsells loam (2% to 5% slopes).
^{3/} Falaya silt loam (2% to 5% slopes).
^{4/} Loring silt loam (2% to 5% slopes).
^{5/} Tested in previous years as 18114.
^{6/} Tested in previous years as 19018.

Table 13. Corn: Yield and other characteristics of 25 early maturing hybrids evaluated at four locations in 1982.

| Color | Cross | Hybrid | Yield Bu/A | Erect plants % | Grain quality Rating ^{1/} | Husk cover Rating ^{1/} | Plant ht. in. | Grain moisture at harvest % |
|--------------|-------|--------------------|---------------|----------------------|--|---------------------------------------|---------------------|---|
| y | 2X | McCurdy 81-82 | 161 | 99 | 2.8 | 4.0 | 53 | 29.0 |
| y | 2X | McCurdy 84aa | 156 | 98 | 4.0 | 3.5 | 53 | 30.6 |
| y | 2X | Pioneer brand 3358 | 156 | 100 | 3.5 | 5.0 | 53 | 26.4 |
| y | 2X | Pioneer brand 3389 | 156 | 100 | 3.0 | 5.5 | 54 | 25.1 |
| y | 2X | DeKalb 28035 | 153 | 96 | 3.0 | 4.7 | 52 | 27.0 |
| y | 2X | O's Gold 2570 | 153 | 96 | 3.0 | 3.7 | 47 | 29.8 |
| y | 2X | DeKalb EX6060 | 150 | 96 | 5.0 | 5.2 | 51 | 23.7 |
| y | 2X | DeKalb 28016 | 149 | 99 | 3.8 | 4.5 | 55 | 25.8 |
| y | 3X | FFR 726C | 142 | 98 | 5.5 | 5.5 | 48 | 26.2 |
| y | 2X | McCurdy 81-34 | 142 | 99 | 2.8 | 5.3 | 49 | 27.3 |
| y | 2X | AgriGold A-6612 | 142 | 98 | 2.5 | 2.8 | 46 | 25.5 |
| y | M2X | Funk G-4522 | 142 | 99 | 3.5 | 4.0 | 47 | 26.9 |
| y | 2X | O's Gold 3344 | 142 | 94 | 4.0 | 4.3 | 50 | 25.4 |
| y | 2X | O's Gold 6882 | 140 | 98 | 4.2 | 5.2 | 46 | 24.8 |
| y | 2X | FFR 788C | 138 | 97 | 4.5 | 4.7 | 50 | 26.6 |
| y | 2X | Funk G-4507A | 138 | 94 | 5.0 | 4.2 | 51 | 26.0 |
| y | 3X | FFR 799C | 137 | 98 | 4.2 | 4.7 | 50 | 26.6 |
| y | 2X | Jacques JX180 | 136 | 96 | 4.2 | 4.5 | 50 | 26.0 |
| y | M2X | FFR 717C | 136 | 98 | 3.5 | 3.5 | 54 | 23.8 |
| y | 2X | Cargill 921 | 136 | 94 | 5.5 | 4.8 | 46 | 22.2 |
| y | 2X | Coker 19 | 135 | 97 | 4.8 | 4.2 | 51 | 25.0 |
| y | 2X | RA 1501 | 134 | 92 | 4.5 | 4.0 | 49 | 26.3 |
| w | 2X | O's Gold 2560W | 134 | 93 | 5.0 | 4.2 | 57 | 28.6 |
| y | 2X | Gold Kist 695 | 131 | 98 | 4.5 | 5.3 | 43 | 24.1 |
| y | 2X | FFR 744C | 128 | 95 | 4.8 | 4.8 | 50 | 25.6 |
| L.S.D. (.05) | | | 7.3 | | | | | |
| C.V. % | | | 7.3 | | | | | |
| Avg. | | | 142.6 | | | | | |

^{1/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 14. Corn: Yield of 11 early maturing hybrids evaluated for 2 years (1981-82) at four locations.

| Color | Cross | Hybrid | 1981-82 | Knox- | Cross- | Martin | Ames |
|------------------|-------|---------------|---------|-------|--------|--------|------------|
| | | | Avg. | ville | ville | | Plantation |
| Bushels per acre | | | | | | | |
| y | 2X | McCurdy 84aa | 147 | 161 | 170 | 142 | 114 |
| y | 2X | O's Gold 3344 | 138 | 157 | 140 | 139 | 117 |
| y | M2X | Funk G-4522 | 137 | 146 | 146 | 149 | 108 |
| y | 2X | FFR 788C | 135 | 139 | 150 | 143 | 109 |
| y | 2X | O's Gold 6882 | 135 | 145 | 151 | 141 | 102 |
| | | | | | | | |
| y | 3X | FFR 799C | 135 | 137 | 149 | 139 | 113 |
| y | 2X | Coker 19 | 134 | 143 | 133 | 140 | 120 |
| y | 2X | Funk G-4507A | 133 | 140 | 146 | 136 | 108 |
| y | 2X | RA 1501 | 129 | 135 | 134 | 136 | 112 |
| y | 2X | FFR 744C | 129 | 133 | 142 | 138 | 103 |
| | | | | | | | |
| y | M2X | FFR 717C | 125 | 147 | 146 | 113 | 96 |

Table 15. Corn: Yield and other characteristics of 11 early maturing hybrids evaluated for 2 years (1981-82) at four locations.

| Color | Cross | Hybrid | 1981-82 | Erect plants | Grain quality | Husk cover | Ear ht. | Grain |
|-------|-------|---------------|---------------|-----------------|----------------------|----------------------|------------|---------------|
| | | | avg. yield | | | | | moisture |
| | | | Bu/A | % | Rating ^{1/} | Rating ^{1/} | in. | at harvest |
| y | 2X | McCurdy 84aa | 147 | 96 | 3.6 | 3.4 | 54 | 25.4 |
| y | 2X | O's Gold 3344 | 138 | 92 | 4.0 | 3.8 | 52 | 21.2 |
| y | M2X | Funk G-4522 | 137 | 98 | 3.5 | 3.8 | 51 | 22.6 |
| y | 2X | FFR 788C | 135 | 98 | 4.4 | 4.1 | 52 | 22.2 |
| y | 2X | O's Gold 6882 | 135 | 97 | 4.5 | 5.2 | 46 | 21.2 |
| y | 3X | FFR 799C | 135 | 98 | 3.8 | 4.8 | 50 | 22.6 |
| y | 2X | Coker 19 | 134 | 97 | 4.5 | 4.2 | 51 | 21.3 |
| y | 2X | Funk G-4507A | 133 | 95 | 4.6 | 4.0 | 52 | 21.8 |
| y | 2X | RA 1501 | 129 | 93 | 4.2 | 3.9 | 51 | 22.0 |
| y | 2X | FFR 744C | 129 | 96 | 4.8 | 4.6 | 51 | 21.8 |
| y | M2X | FFR 717C | 125 | 96 | 3.6 | 3.6 | 52 | 20.4 |

^{1/} Rating is based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 16. Corn: Yield and other characteristics of 7 early maturing hybrids evaluated for 3 years (1980-82) at four locations.

| Color | Cross | Hybrid | 1980-82 | Erect plants % | Grain quality Rating ^{1/} | Husk cover Rating ^{1/} | Ear ht. in. | Grain moisture at harvest |
|-------|-------|---------------|-----------------------|----------------------|--|---------------------------------------|-------------------|------------------------------------|
| | | | Avg. yield Bu/A | | | | | % |
| y | 2X | McCurdy 84aa | 131 | 95 | 4.1 | 3.2 | 52 | 23.5 |
| y | 2X | O's Gold 3344 | 126 | 93 | 4.2 | 3.8 | 50 | 19.9 |
| y | 2X | Funk G-4507A | 117 | 95 | 4.9 | 4.2 | 50 | 20.7 |
| y | 2X | FFR 788C | 115 | 95 | 4.4 | 4.1 | 49 | 21.1 |
| y | 2X | RA 1501 | 115 | 94 | 5.1 | 3.6 | 49 | 20.5 |
| y | 2X | FFR 744C | 113 | 96 | 5.2 | 4.9 | 50 | 20.4 |
| y | M2X | FFR 717C | 112 | 96 | 3.9 | 3.4 | 50 | 19.2 |

Table 17. Corn: Yield and other characteristics of 10 hybrids evaluated at Knoxville in 1982.^{1/}

| Hybrid | Yield Bu/A | Grain quality Rating ^{2/} | Husk cover Rating ^{2/} | Ear ht. in. | Grain moisture at harvest |
|--------------------|---------------|--|---------------------------------------|-------------------|------------------------------------|
| | | | | | % |
| Paymaster 9902 | 173 | 4.0 | 4.0 | 65 | 23.8 |
| Pioneer brand 3179 | 170 | 3.0 | 4.0 | 64 | 23.4 |
| Pioneer brand 3147 | 167 | 4.0 | 3.5 | 60 | 25.8 |
| Zimmerman Z-14W | 167 | 2.0 | 3.5 | 56 | 23.8 |
| Paymaster 8990 | 162 | 2.0 | 3.5 | 54 | 23.8 |
| Funk Exp. 8006X | 155 | 3.0 | 3.0 | 62 | 23.5 |
| Paymaster 497 | 150 | 3.0 | 4.0 | 54 | 22.8 |
| USS 2315 | 147 | 3.5 | 4.0 | 60 | 21.6 |
| MFA 6707 | 138 | 6.5 | 5.0 | 56 | 21.8 |
| FFR Exp. 14172 | 133 | 6.0 | 4.0 | 54 | 23.4 |
| MFA 6708 | 128 | 6.5 | 5.0 | 52 | 21.6 |
| L.S.D. (.05) | 12.3 | | | | |
| C.V. % | 5.6 | | | | |

^{1/} Sequatchie loam (2% to 5% slopes).

^{2/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 18. Corn: Yield and other characteristics of 29 extra hybrids evaluated at Knoxville in 1982.^{1/}

| Color | Cross | Hybrid | Yield Bu/A | Grain quality Rating ^{2/} | Husk cover Rating ^{2/} | Ear ht. in. | Grain moisture at harvest % |
|--------------|-------|--------------------|---------------|--|---------------------------------------|-------------------|---|
| y | 2X | Beck's 85XA | 194 | 3.0 | 2.0 | 57 | 23.4 |
| y | 2X | DeKalb 29027 | 181 | 5.5 | 4.0 | 72 | 24.7 |
| w | 2X | T161 XMP339 | 178 | 3.0 | 2.5 | 66 | 28.8 |
| w | 2X | AgriGold A6955W | 177 | 3.5 | 2.5 | 61 | 24.3 |
| y | 2X | Pioneer brand 3147 | 172 | 5.0 | 4.0 | 62 | 25.6 |
| y | 2X | Jacques 247 | 167 | 5.0 | 4.0 | 57 | 25.6 |
| w | 2X | AgriGold A-6950W | 165 | 3.5 | 3.5 | 68 | 22.7 |
| y | 2X | Beck's 90X | 165 | 3.0 | 5.0 | 55 | 23.5 |
| y | 2X | Gutwein 2910 | 159 | 4.5 | 4.0 | 59 | 25.7 |
| y | 2X | McCurdy 81-35 | 158 | 3.0 | 3.5 | 54 | 22.8 |
| y | 2X | Stauffer S8818 | 158 | 5.0 | 4.0 | 57 | 24.0 |
| y | M3X | Funk Exp. 8006X | 153 | 3.0 | 4.0 | 63 | 23.7 |
| y | 2X | AgriGold A-6810 | 153 | 3.0 | 5.0 | 57 | 23.1 |
| y | 2X | N.K. PX9581 | 153 | 5.0 | 3.0 | 53 | 23.0 |
| y | 2X | Jacques 227 | 152 | 6.0 | 4.5 | 57 | 22.6 |
| y | M2X | Gold Kist 875 | 152 | 3.5 | 3.5 | 58 | 21.4 |
| y | 2X | T.E. 6995A | 149 | 7.5 | 4.5 | 59 | 21.0 |
| y | 3X | Asgrow RX864 | 147 | 4.0 | 3.0 | 54 | 21.7 |
| y | 2X | Gutwein 86 | 144 | 6.0 | 3.0 | 56 | 22.4 |
| y | 2X | Jacques 8220 | 144 | 4.5 | 3.0 | 49 | 23.4 |
| y | 2X | Beck's 89X | 144 | 4.0 | 4.0 | 60 | 22.6 |
| y | M2X | Gutwein 2875 | 143 | 3.5 | 3.5 | 55 | 23.4 |
| y | 2X | T.E. 6998 | 142 | 5.5 | 5.0 | 60 | 24.8 |
| y | 2X | AgriGold A-830 | 142 | 4.0 | 4.5 | 59 | 20.6 |
| y | 2X | Zimmerman Z-25Y | 142 | 3.5 | 3.5 | 56 | 23.9 |
| y | 3X | Gold Kist 868 | 141 | 4.5 | 3.5 | 57 | 23.7 |
| y | 2X | N.K. PX9609 | 138 | 6.0 | 4.5 | 59 | 23.2 |
| y | 2X | AgriGold A-6611 | 129 | 5.0 | 4.5 | 58 | 21.3 |
| y | 2X | Cargill 967 | 123 | 7.5 | 5.0 | 60 | 21.0 |
| L.S.D. (.05) | | | 16.7 | | | | |
| C.V. % | | | 7.7 | | | | |

^{1/} Sequatchie loam (2% to 5% slopes).

^{2/} Rating based on a scale of 1 through 9 with 1 being excellent and 9 poor.

Table 19. Corn: Yield and mean virus reaction of selected hybrids grown in Humphreys County, under virus conditions in 1982^{1/}

| Hybrid | Yield Bu/A | Grain quality Rating ^{2/} | Diseased plants % | Virus sev. index | Virus mean sev. index |
|------------------------|---------------|--|-------------------------|------------------------|--------------------------------|
| Pioneer brand 3160 | 128 | 3.5 | 54.0 | 3.5 | 2.3 |
| Pioneer brand 3147 | 124 | 4.0 | 39.0 | 3.6 | 2.0 |
| DeKalb XL72BB | 124 | 4.0 | 51.0 | 3.8 | 2.6 |
| FFR 848C | 123 | 2.5 | 50.8 | 3.4 | 2.2 |
| DeKalb 28012 | 121 | 3.5 | 49.6 | 3.9 | 2.3 |
| FFR 955C | 121 | 3.0 | 38.9 | 4.0 | 2.1 |
| Pioneer brand 3187 | 118 | 3.0 | 43.1 | 3.8 | 2.1 |
| DeKalb XL394 | 117 | 3.5 | 37.2 | 4.3 | 2.1 |
| DeKalb EX8989 | 116 | 3.5 | 43.3 | 3.4 | 2.0 |
| McCurdy 81-34 | 114 | 3.0 | 24.2 | 3.3 | 1.5 |
| Funk G-4740 | 114 | 4.0 | 54.7 | 3.6 | 2.6 |
| McCurdy 7978 | 114 | 3.5 | 40.6 | 3.7 | 2.1 |
| DeKalb XL390B | 109 | 3.5 | 67.1 | 3.8 | 2.8 |
| FFR 929W | 109 | 3.0 | 51.3 | 4.0 | 2.6 |
| Pioneer brand 3369A | 107 | 3.5 | 66.9 | 4.0 | 3.0 |
| FFR 717C | 107 | 4.0 | 58.3 | 3.6 | 2.5 |
| Funk G-4733 | 105 | 3.0 | 65.8 | 4.4 | 3.2 |
| Golden Harvest H-2660W | 105 | 3.5 | 71.5 | 4.1 | 3.0 |
| DeKalb XL72B | 103 | 4.0 | 57.0 | 3.8 | 2.6 |
| TR 2051W | 102 | 3.0 | 63.3 | 3.7 | 2.8 |
| Pioneer brand 3368A | 101 | 3.0 | 68.4 | 4.3 | 3.3 |
| Princeton SX910 | 101 | 3.5 | 69.4 | 4.3 | 3.3 |
| RA 2602W | 97 | 4.0 | 71.3 | 4.0 | 3.1 |
| Funk G-4525A | 97 | 4.0 | 62.7 | 3.8 | 2.8 |
| Cargill 951 | 95 | 4.0 | 33.0 | 3.8 | 1.9 |
| Pioneer brand 3328 | 93 | 4.5 | 58.3 | 4.1 | 2.8 |
| Pioneer brand 519 | 90 | 3.0 | 62.0 | 4.6 | 2.9 |
| L.S.D. (.05) | 14.9 | - | 17.6 | 0.6 | 0.6 |
| C.V. % | 9.7 | - | 23.5 | 10.6 | 18.4 |
| Avg. | 109.4 | - | 53.1 | 3.8 | 2.5 |

^{1/} Data obtained in cooperation with D. R. West and H. C. Kincer.

Table 20. Virus ratings of selected medium season hybrids evaluated in Humphreys County, under virus conditions in 1982.

| Hybrid | No. of plants | Virus severity | Virus index | Diseased plants % |
|-----------------------|------------------|-------------------|----------------|-------------------------|
| Stauffer S8500 | 49 | 4.3 | 2.8 | 55.1 |
| Funk EX29092 | 62 | 4.0 | 2.9 | 62.9 |
| N.K. PX79 | 55 | 3.9 | 3.1 | 70.9 |
| RA 1604 | 50 | 4.3 | 3.3 | 70.0 |
| O's Gold 5291 | 57 | 4.8 | 3.3 | 61.4 |
| Pioneer brand 3147 | 57 | 4.2 | 3.4 | 75.4 |
| T.E. 6945 | 63 | 4.4 | 3.4 | 71.4 |
| Pioneer brand 3320 | 63 | 3.9 | 3.5 | 87.3 |
| O's Gold 2680W | 55 | 4.6 | 3.5 | 70.9 |
| USS 1516 | 56 | 4.9 | 3.5 | 64.3 |
| USS 1515 | 45 | 5.2 | 3.6 | 62.2 |
| Asgrow RX777 | 58 | 4.8 | 3.6 | 69.0 |
| Funk G-4779W | 53 | 4.6 | 3.7 | 75.5 |
| Pioneer brand 3184 | 51 | 4.3 | 3.7 | 82.3 |
| Golden Harvest H-2680 | 52 | 4.8 | 3.8 | 73.1 |
| McCurdy 8150 | 50 | 4.7 | 3.8 | 76.0 |
| Zimmerman Z-24Y | 55 | 4.5 | 3.9 | 83.6 |
| N.K. PX74 | 54 | 5.6 | 4.2 | 68.5 |
| Coker 21 | 56 | 5.6 | 4.2 | 69.6 |
| Golden Harvest H-2630 | 57 | 5.7 | 4.6 | 75.4 |
| T.E. 6995 | 45 | 5.3 | 4.7 | 86.7 |
| Funk G-4606 | 43 | 5.0 | 4.7 | 93.0 |
| Golden Harvest H-2686 | 48 | 6.3 | 5.7 | 89.6 |
| L.S.D. (.05) | | 0.9 | 1.5 | 28.6 |
| C.V. % | | 9.0 | 19.3 | 18.6 |
| Avg. | | 4.7 | 3.8 | 74.0 |

Table 21. Virus ratings of selected full-season hybrids evaluated in Humphreys County, under virus conditions in 1982.

| Hybrid | No. of plants | Virus severity | Virus index | Diseased plants % |
|-----------------------|------------------|-------------------|----------------|-------------------------|
| Super Crost 7995 | 55 | 4.1 | 1.9 | 30.9 |
| Pioneer brand 3147 | 46 | 4.1 | 2.3 | 41.3 |
| N.K. PX95 | 51 | 4.1 | 2.7 | 54.9 |
| Princeton SP936 | 53 | 3.8 | 2.9 | 66.0 |
| Zimmerman Z-11W | 54 | 3.9 | 3.1 | 72.2 |
| DeKalb 29014 | 53 | 4.1 | 3.1 | 69.8 |
| Pioneer brand 3165 | 54 | 4.3 | 3.1 | 63.0 |
| Golden Harvest H-2695 | 52 | 4.5 | 3.2 | 63.5 |
| Asgrow RX962W | 49 | 3.9 | 3.2 | 77.5 |
| RA 3605W | 49 | 4.5 | 3.3 | 65.3 |
| McCurdy 8230 | 47 | 4.2 | 3.3 | 72.3 |
| Stauffer S880W | 51 | 4.1 | 3.3 | 72.5 |
| Zimmerman Z-52W | 48 | 4.3 | 3.4 | 72.9 |
| Super Crost 6762 | 57 | 4.5 | 3.4 | 70.2 |
| FFR 905C | 55 | 4.4 | 3.4 | 69.1 |
| T.E. 6995A | 51 | 4.1 | 3.5 | 80.4 |
| N.K. PX715 | 49 | 4.4 | 3.6 | 75.5 |
| Gold Kist 925 | 47 | 5.2 | 3.6 | 61.7 |
| RAX 9609W | 47 | 4.3 | 3.6 | 78.7 |
| Coker 22 | 48 | 4.8 | 3.8 | 72.9 |
| N.K. PX707 | 52 | 4.5 | 3.9 | 80.8 |
| USS 2020 | 60 | 4.8 | 3.9 | 76.7 |
| McCurdy 80-72 | 50 | 4.9 | 4.0 | 76.0 |
| Super Crost 7801 | 43 | 5.1 | 4.2 | 79.1 |
| Trojan T1230 | 49 | 5.2 | 4.3 | 77.6 |
| Agri Gold A-6910 | 50 | 4.9 | 4.3 | 86.0 |
| Princeton SX860 | 48 | 5.6 | 4.6 | 77.1 |
| DeKalb 24301 | 50 | 5.3 | 4.6 | 84.0 |
| L.S.D. (.05) | | 1.0 | 1.5 | 29.1 |
| C.V. % | | 11.1 | 21.5 | 20.2 |
| Avg. | | 4.5 | 3.5 | 70.2 |

Table 22. Virus ratings of preliminary hybrids evaluated in
Humphreys County, under virus conditions in 1982.

| Hybrid | No. of plants | Virus severity | Virus index | Diseased plants % |
|--------------------|------------------|-------------------|----------------|-------------------------|
| Pioneer brand 3147 | 53 | 4.0 | 2.3 | 41.5 |
| Gold Kist 875 | 55 | 3.6 | 2.3 | 52.7 |
| McCurdy 81-35 | 55 | 3.8 | 2.4 | 50.9 |
| T161 x MP339 | 54 | 3.5 | 2.6 | 64.8 |
| Agri Gold A-6950W | 48 | 4.4 | 2.8 | 52.1 |
| Agri Gold A-830 | 50 | 3.8 | 3.1 | 74.0 |
| Funk Exp 8006X | 56 | 4.0 | 3.2 | 71.4 |
| Jacques JX277 | 48 | 4.5 | 3.5 | 72.9 |
| Agri Gold A-6810 | 51 | 4.4 | 3.5 | 72.5 |
| DeKalb 29027 | 60 | 4.6 | 3.6 | 73.3 |
| T.E. 6995A | 57 | 4.4 | 3.8 | 82.5 |
| Gutwein 2875 | 45 | 4.6 | 3.8 | 77.8 |
| Jacques 8220 | 48 | 4.7 | 3.9 | 79.2 |
| Beck's 90X | 49 | 4.8 | 3.9 | 75.5 |
| Agri Gold A-6955W | 50 | 4.5 | 4.0 | 86.0 |
| Beck's 85XA | 60 | 4.3 | 4.0 | 91.7 |
| Asgrow RX864 | 56 | 4.8 | 4.1 | 82.1 |
| Stauffer S8818 | 52 | 5.1 | 4.1 | 76.9 |
| Agri Gold A-6611 | 48 | 5.1 | 4.2 | 77.1 |
| Beck's 89X | 54 | 5.0 | 4.3 | 83.3 |
| Gutwein 86 | 51 | 4.5 | 4.5 | 100.0 |
| Gutwein 2910 | 52 | 5.3 | 4.5 | 82.7 |
| Gold Kist 868 | 56 | 5.0 | 4.6 | 91.1 |
| Jacques JX247 | 52 | 5.3 | 4.6 | 84.6 |
| Zimmerman Z-25Y | 46 | 5.2 | 4.6 | 87.0 |
| N.K. PX9609 | 50 | 5.9 | 4.8 | 78.0 |
| T.E. 6998 | 43 | 5.7 | 4.8 | 81.4 |
| N.K. PX9581 | 46 | 5.5 | 5.2 | 93.5 |
| Cargill 967 | 53 | 5.6 | 5.2 | 90.6 |
| L.S.D. (.05) | | 0.9 | 1.1 | 26.3 |
| C.V. % | | 9.2 | 14.3 | 16.7 |
| Avg. | | 4.7 | 3.9 | 76.8 |

Table 23 Virus ratings of selected early maturing hybrids evaluated in Humphreys County, under virus conditions in 1982.

| Hybrid | No. of plants | Virus severity | Virus index | Diseased plants % |
|--------------------|---------------|----------------|-------------|-------------------|
| DeKalb 28035 | 59 | 4.2 | 3.0 | 64.4 |
| DeKalb 28016 | 54 | 4.2 | 3.3 | 68.5 |
| O's Gold 3344 | 60 | 4.0 | 3.6 | 86.7 |
| O's Gold 2560W | 55 | 4.3 | 3.6 | 78.2 |
| FFR 726C | 70 | 4.9 | 3.8 | 70.0 |
| Agri Gold A-6612 | 49 | 5.1 | 3.8 | 67.3 |
| Pioneer brand 3358 | 58 | 4.3 | 3.9 | 86.2 |
| Pioneer brand 3389 | 57 | 4.4 | 4.0 | 86.0 |
| McCurdy 81-82 | 47 | 5.1 | 4.1 | 74.5 |
| O's Gold 2570 | 57 | 4.8 | 4.3 | 84.2 |
| Cargill 921 | 48 | 4.6 | 4.6 | 100.0 |
| Gold Kist 695 | 46 | 5.0 | 4.8 | 93.5 |
| DeKalb EX6060 | 45 | 5.4 | 5.1 | 91.1 |
| O's Gold 6882 | 49 | 5.4 | 5.1 | 95.9 |
| Jacques JX180 | 59 | 5.8 | 5.2 | 86.4 |
| L.S.D. (.05) | | 0.9 | 1.2 | 25.7 |
| C.V. % | | 9.0 | 13.1 | 14.6 |
| Avg. | | 4.8 | 4.1 | 81.9 |

Table 24. Corn: Yield and other characteristics of 3 hybrids evaluated at Springfield in 1982.^{1/}

| Hybrid | Yield Bu/A | Grain quality Rating | Husk cover Rating | Plant ht. in. | Grain moisture at harvest % |
|--------------------|------------|----------------------|-------------------|---------------|-----------------------------|
| Pioneer brand 3147 | 173 | 3 | 4.2 | 63 | 23.2 |
| USS 2020 | 167 | 3 | 4.5 | 55 | 22.2 |
| USS 2315 | 163 | 2 | 4.0 | 63 | 20.1 |
| L.S.D. (.05) | N.S. | | | | |
| C.V. % | 5.9 | | | | |

^{1/} Huntington silt loam, local alluvium (2% to 5% slopes).